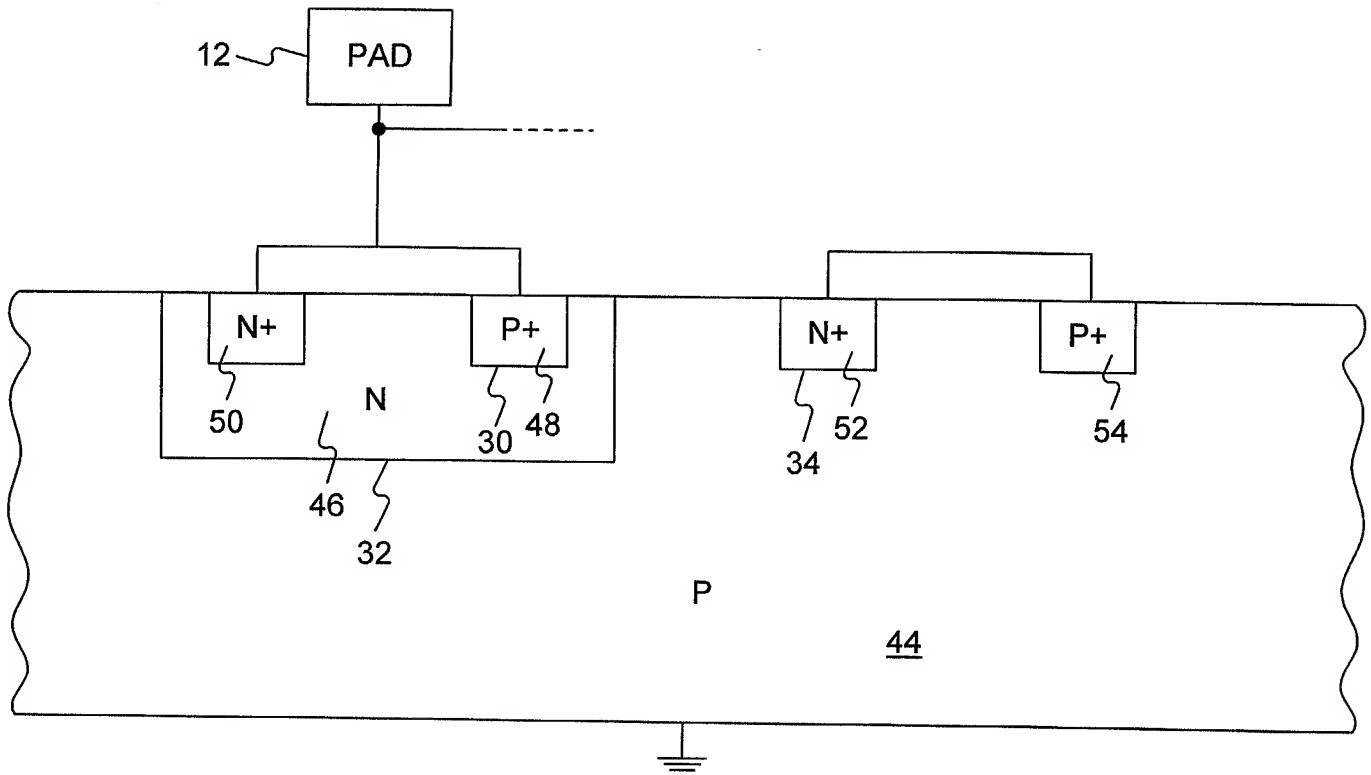

FIG. 1
(Prior Art)

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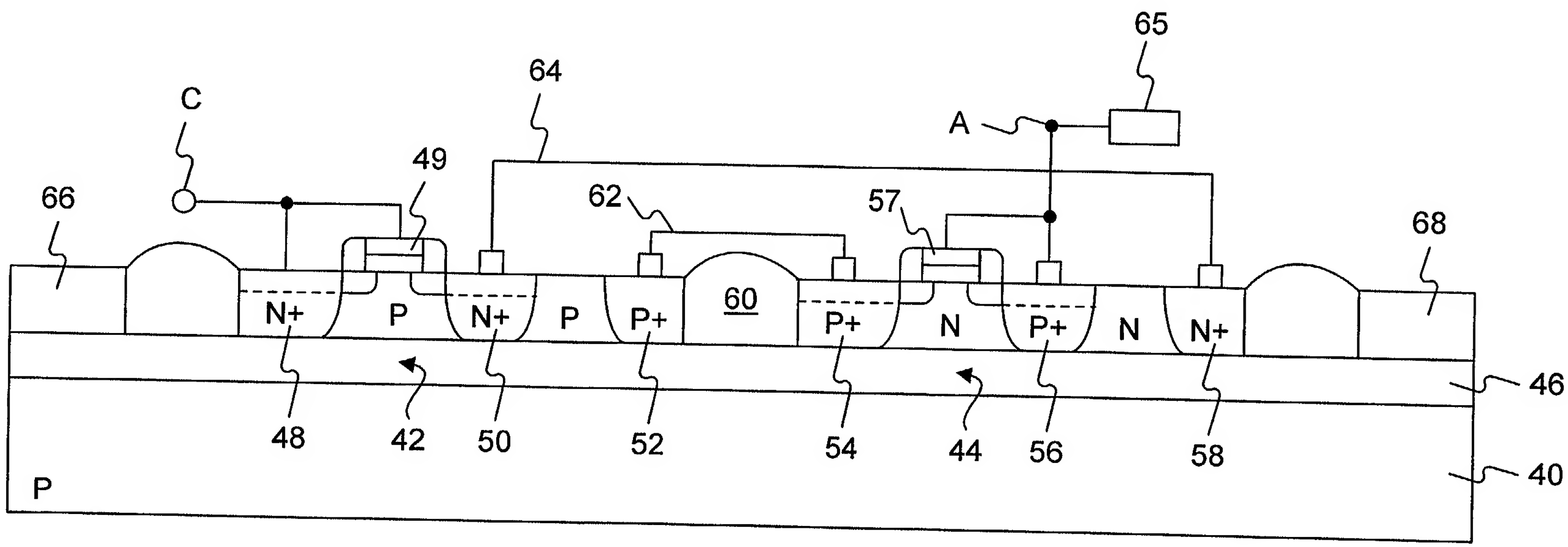

FIG. 2
(Prior Art)

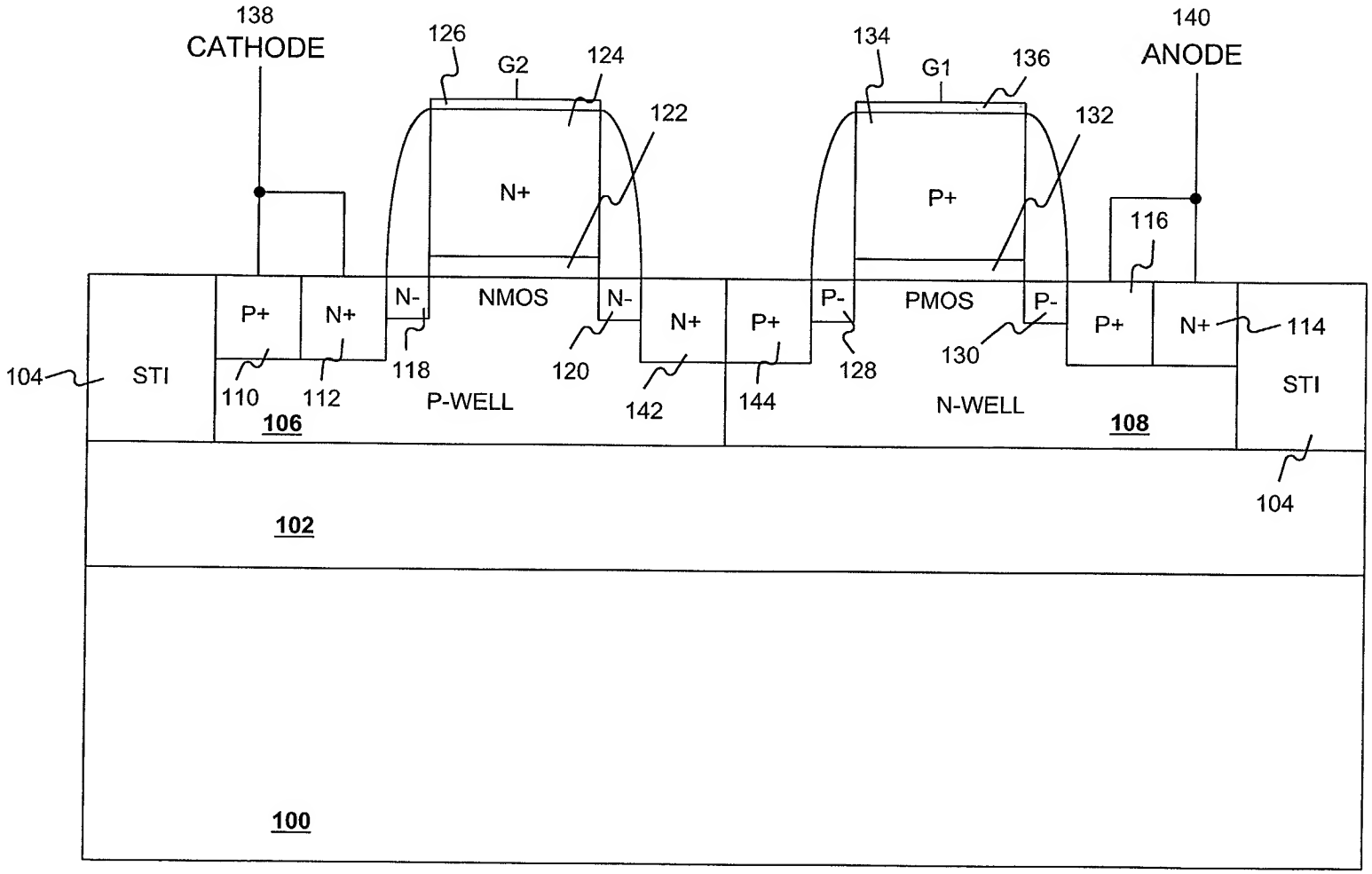

FIG. 3

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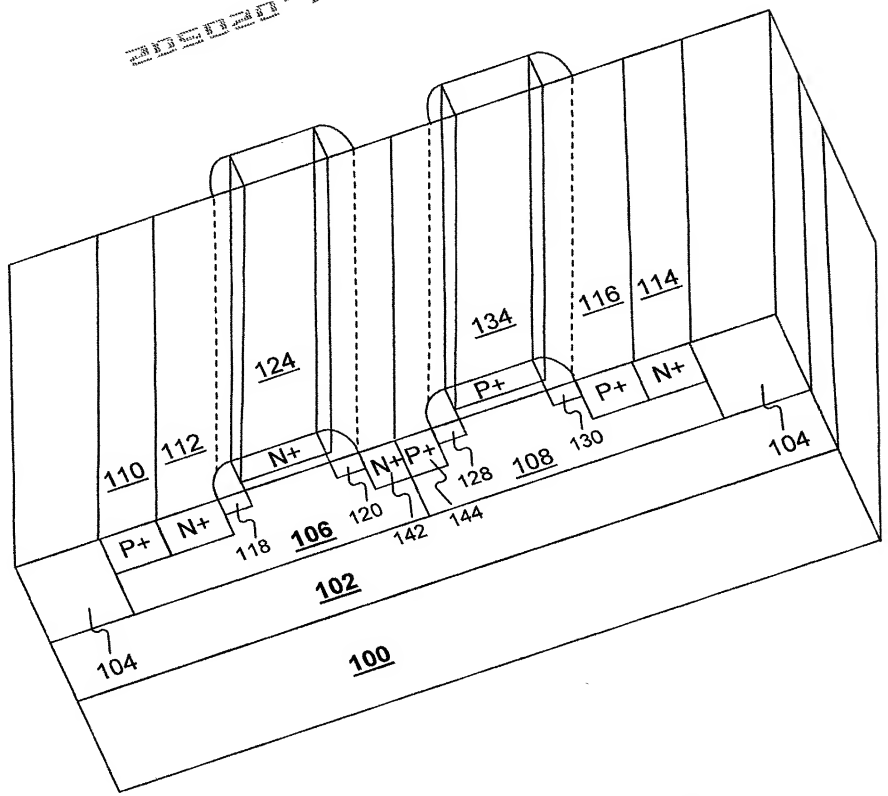

FIG. 4

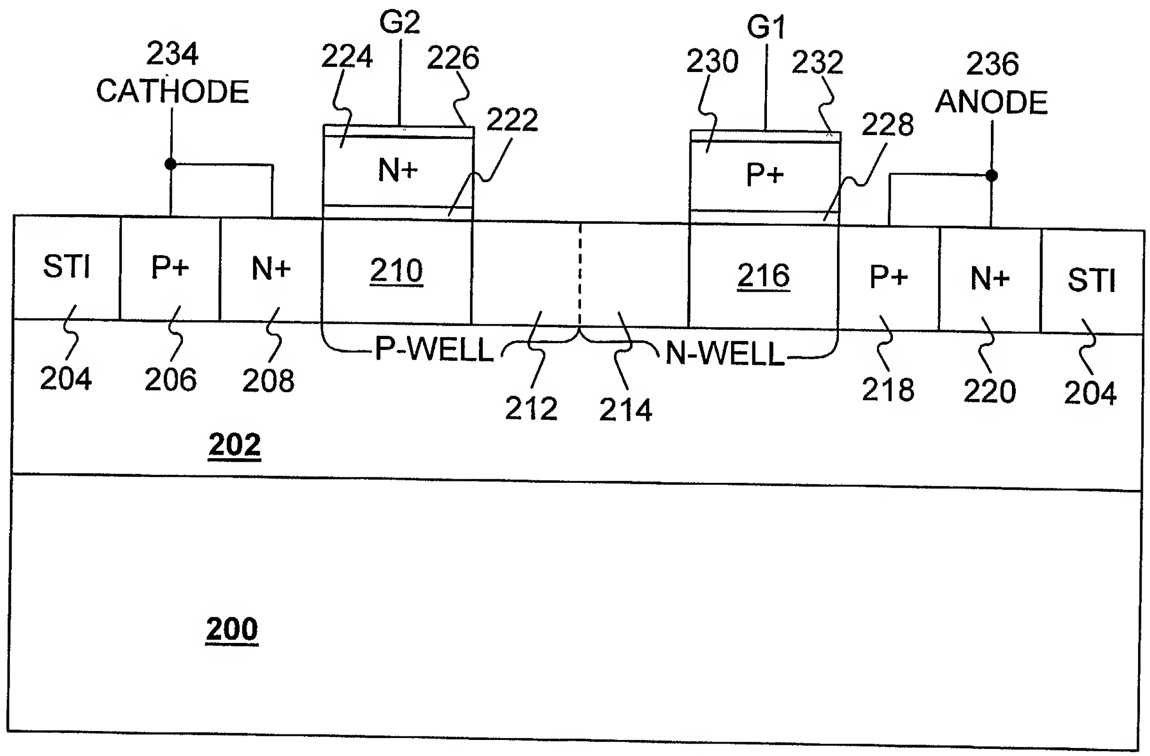
G2
G1
234
CATHODE
224
226
222
230
232
228
236
ANODE
N+
P+
STI
P+
N+
210
216
P+
N+
STI
P-WELL
N-WELL
204
206
208
212
214
218
220
204
202
200

FIG. 5

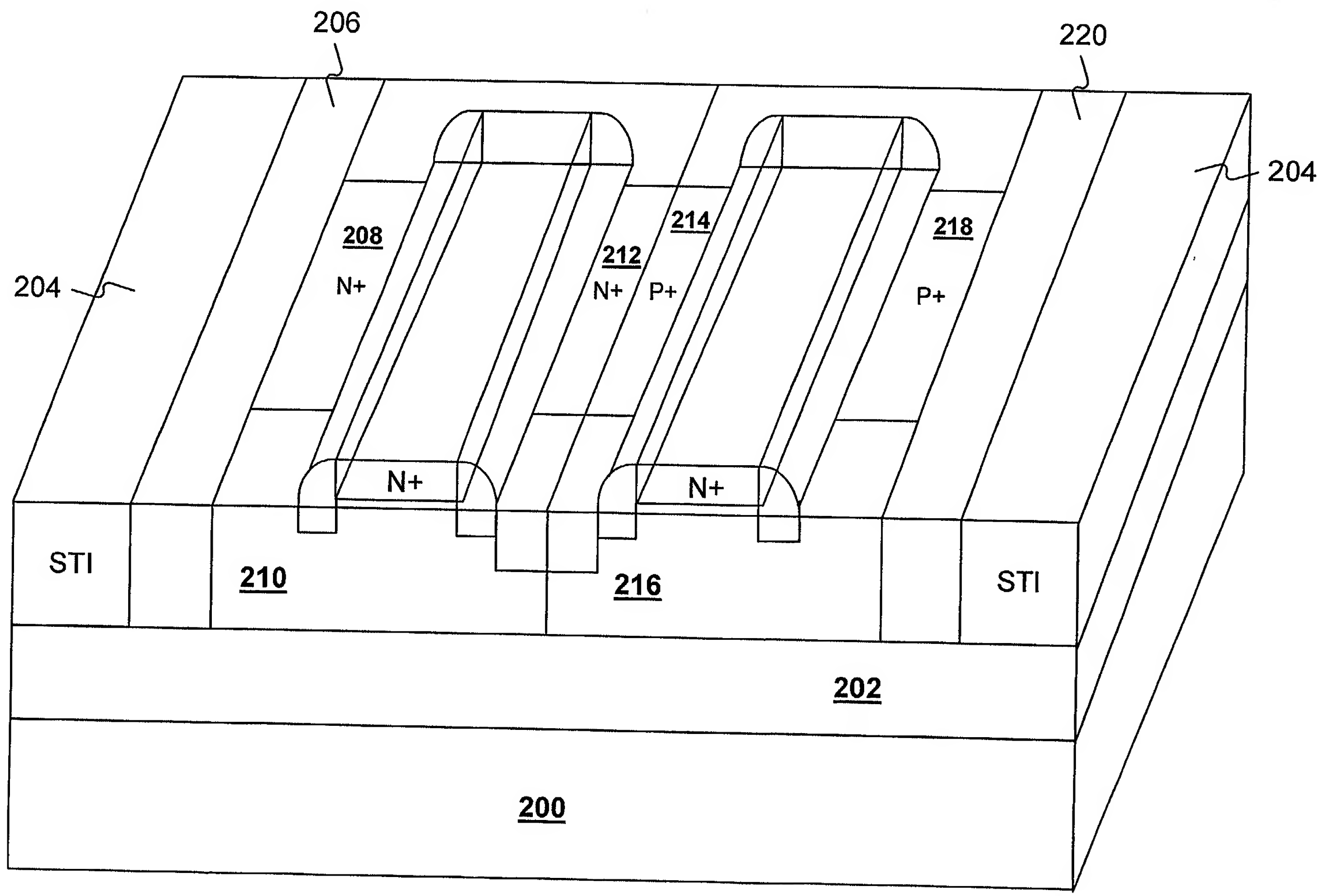

FIG. 6

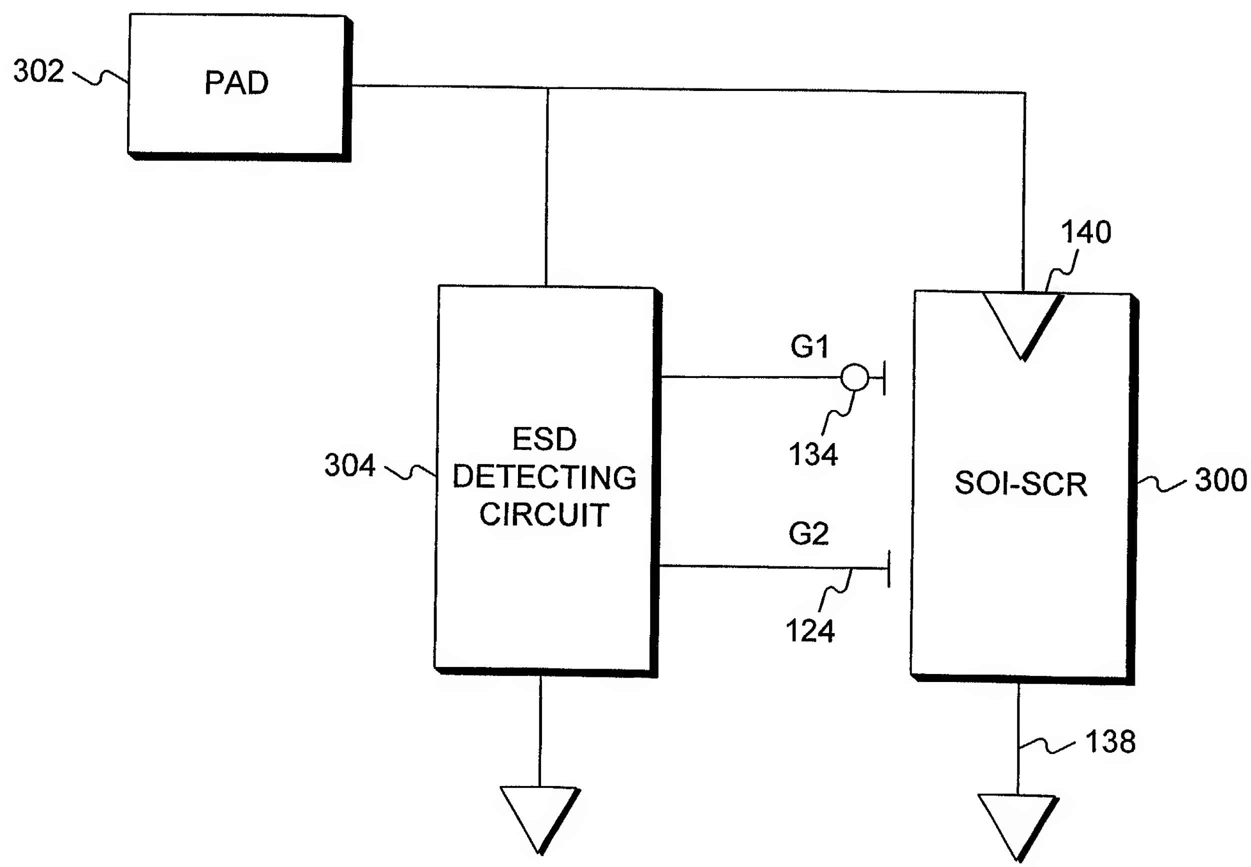
302
PAD
140
ESD
DETECTING
CIRCUIT
304
G1
134
G2
124
SOI-SCR
300
138

FIG. 7A

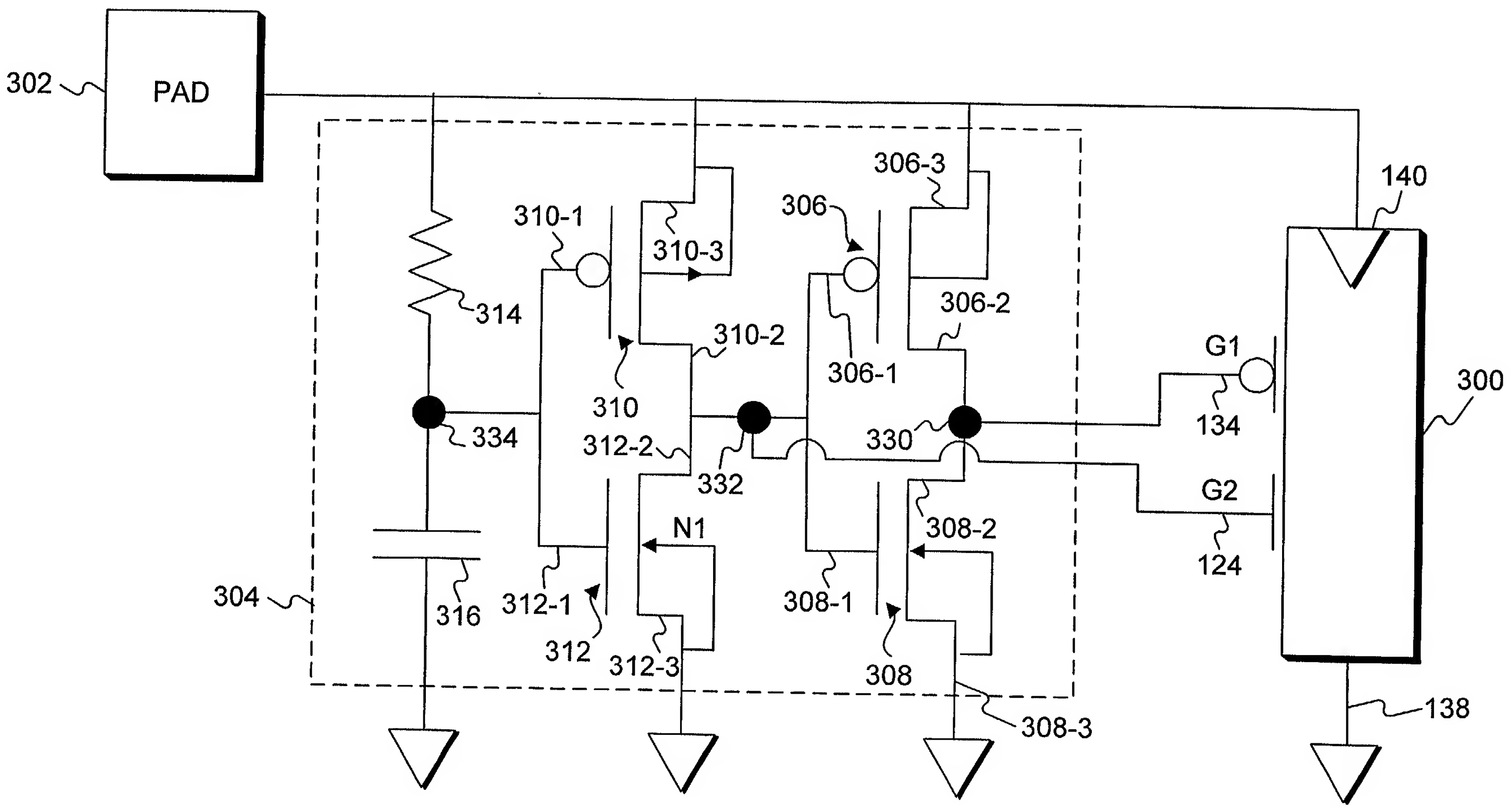
302
PAD
304
314
334
316
310-1
310-3
310
310-2
312-2
312-1
312
312-3
N1
332
306
306-3
306-1
306-2
330
308-2
308-1
308
308-3
140
300
G1
134
G2
124
138

FIG. 7B

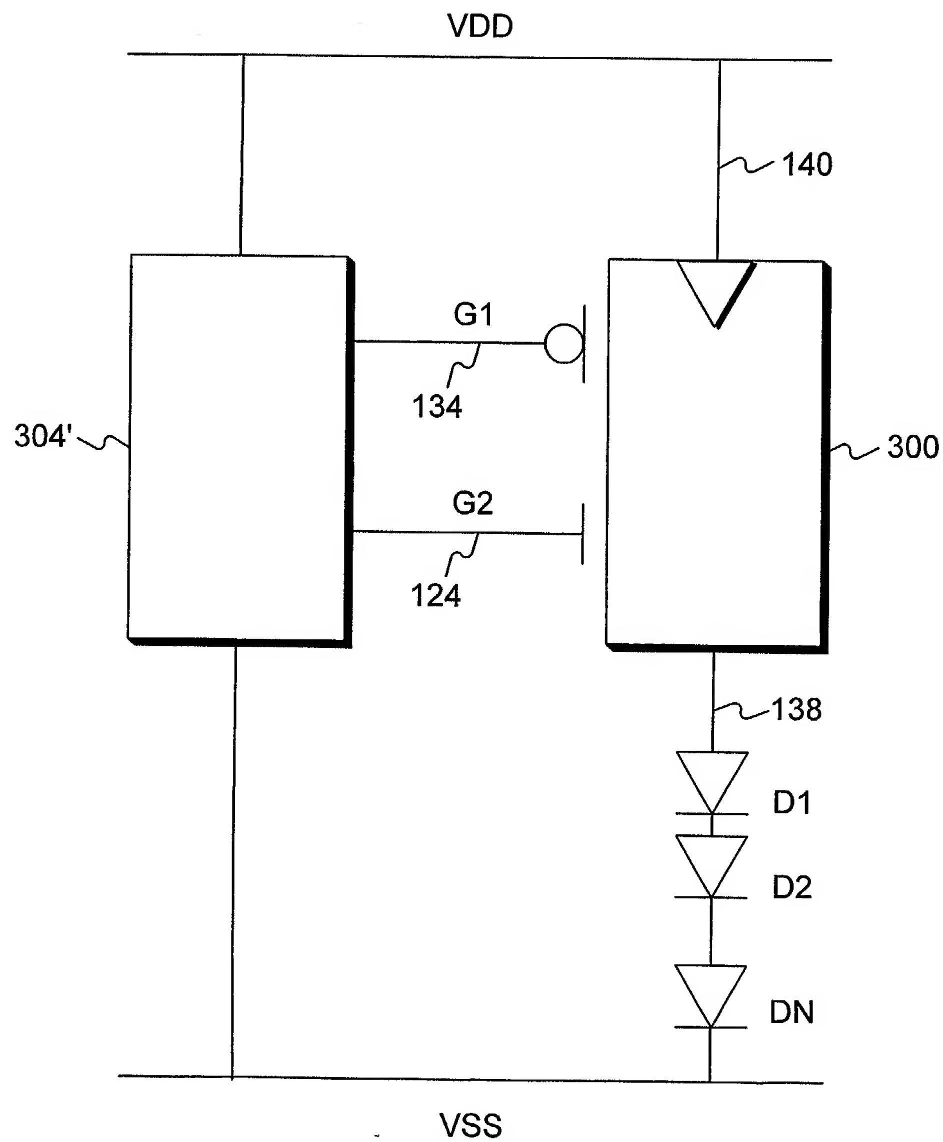

FIG. 8A

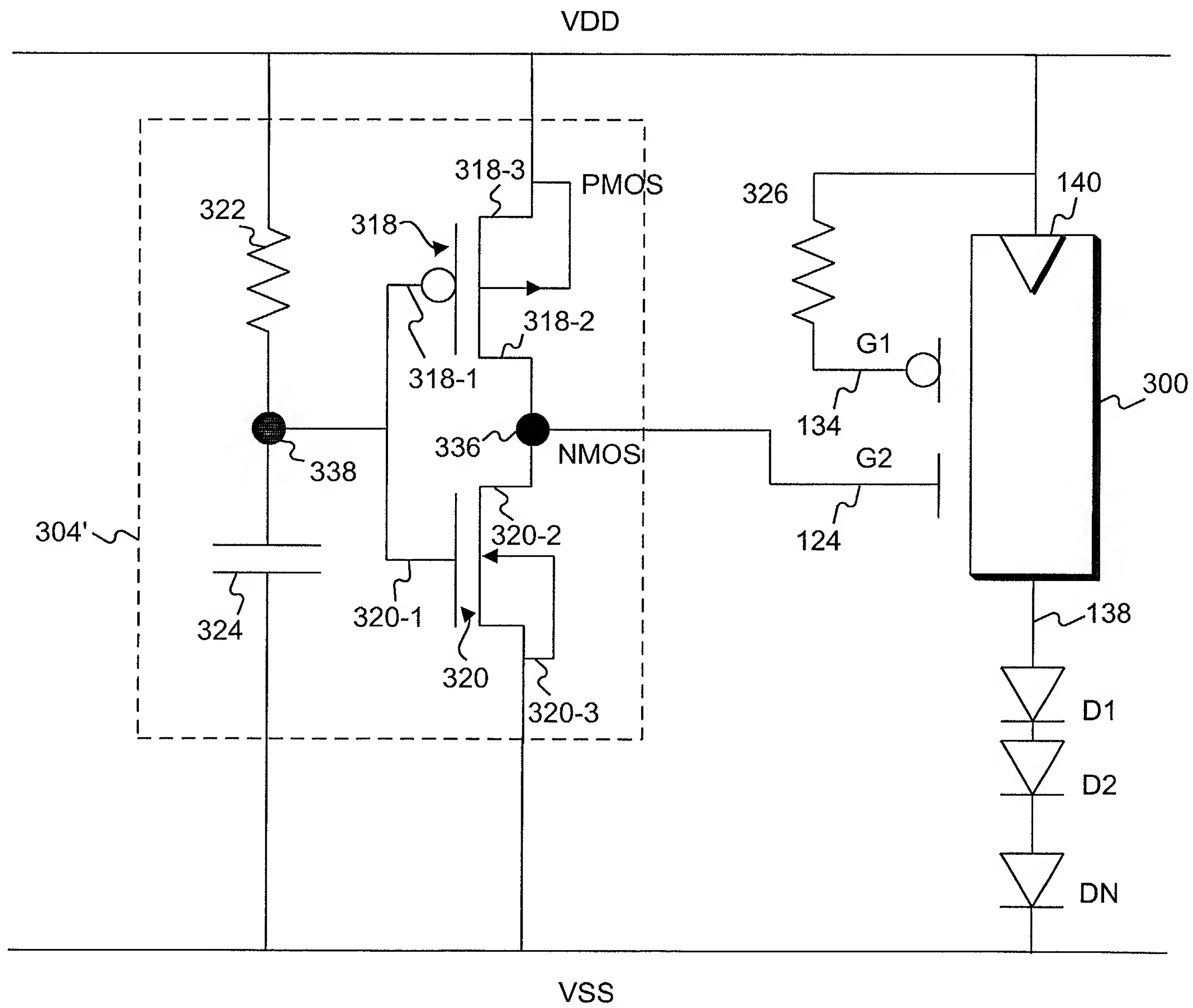

FIG. 8B

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